BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work:Construction of RCC Drains and Culverts at Adithya Nagara, Chandrappa layout and Surrounding Areas in ward No :03, Yelahanka Satellite Town sub Division

JOB NUMBER.:

Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Go No-02 / Est. Amount = 175.00 Lakhs: Rate In Rs.	Amount In Rs.
1	KSRRB300-1 Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.								
	KPWD S.R 2018-19	It. No.	19.10		Pg No.	130			
	Earth Work								
	Chandrappa Layout								
	Ch:00-208 1st Main Road Desilting								
	CC Drain		2	208	0.6	0.35	87.36		
	Ch:00-44 1st Main 1st Cross								
	Ch:00-42 1st Main 2nd Cross		2	44.00	1.00	0.90	79.20		
	Ch:00-43 1st Main 3rd Cross		2	42.00	1.00	0.90	75.60		
	Ch:00-42 1st Main 4th Cross		2	43.00	1.00	0.90	77.40		
	Ch:00-44 1st Main 5th Cross		2	42.00	1.00	0.90	75.60		
	Ch:00-144 2nd Main Road		2	44.00	1.00	0.90	79.20		
	Ch:00-63 2nd Main 1st Cross		2	144.00	1.00	1.10	316.80		
	Ch:00-101 2nd Main 2nd Cross		2	63.00	1.00	0.90	113.40		
	Ch:00-27 2nd Main 3rd Cross		1	101.00	1.00	0.90	90.90		
	Aditya Nagar-II		1	27.00	1.00	0.90	24.30		
	Ch:00-93 1st Main								
	Ch:00-48 1st Main 1st Cross		2	93.00	1.00	0.90	167.40		
	Ch:00-77 1st Main 2nd Cross		2	48.00	1.00	0.90	86.40		
	Ch:00-102 1st Main 3rd Cross		2	77.00	1.00	0.90	138.60		
	Ch:00-73 9th Main 2nd Cross		2	102.00	1.00	0.90	183.60		
	Ch:00-100 Cross Road		2	73.00	1.00	0.90	131.40		
	New Culvert		1	100.00	1.00	0.90	90.00		
	Cross Road								
	New Kerb		2	8.00	1.50	0.90	21.60		
	Chandrappa Layout								
	Ch:00-208 1stMain Road								
	Ch:00-144 2nd Main Road		2	208.00	0.10	0.10	4.16		
			2	144.00	0.10	0.10	2.88		
							Total Qty 1845.80	211.79	3,90,918.29
2	KSRRB M2900-1 Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications.								
	KPWD S.R 2018-19	It. No.	34.1.		Pg No.	254			
	Chandrappa Layout								
	CC Drain								
	Ch:00-44 1st Main 1st Cross		2	44.00	1.00	0.15	13.20		
	Ch:00-42 1st Main 2nd Cross		2	42.00	1.00	0.15	12.60		
	Ch:00-43 1st Main 3rd Cross		2	43.00	1.00	0.15	12.90		
	Ch:00-42 1st Main 4th Cross		2	42.00	1.00	0.15	12.60		
	Ch:00-44 1st Main 5th Cross		2	44.00	1.00	0.15	13.20		
	Ch:00-144 2nd Main Road		2	144.00	1.00	0.15	43.20		
	Ch:00-63 2nd Main 1st Cross		2	63.00	1.00	0.15	18.90		
	Ch:00-101 2nd Main 2nd Cross		1	101.00	1.00	0.15	15.15		
	Ch:00-27 2nd Main 3rd Cross		1	27.00	1.00	0.15	4.05		
	Aditya Nagar-II								
	Ch:00-93 1st Main	Cum	2	93.00	1.00	0.15	27.90		
	Ch:00-48 1st Main 1st Cross		2	48.00	1.00	0.15	14.40		
	Ch:00-77 1st Main 2nd Cross		2	77.00	1.00	0.15	23.10		
	Ch:00-102 1st Main 3rd Cross		2	102.00	1.00	0.15	30.60		
	Ch:00-73 9th Main 2nd Cross		2	73.00	1.00	0.15	21.90		
	Ch:00-100 Cross Road		1	100.00	1.00	0.15	15.00		
	New Culvert								
	Cross Road		2	8.00	1.45	0.25	5.80		
	New Kerb								

Sl. No	Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	Chandrappa Layout								
	Ch:00-208 1stMain Road		2	208.00	0.15	0.15	9.36		
	Ch:00-144 2nd Main Road		2	144.00	0.15	0.15	6.48		
						Total Qty	300.34	4479.56	13,45,391.05
3	KSRRB M2200-6. Providing TMT Bars Fe 500 steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.								
	KPWD S.R 2018-19	It. No.	28.8.2			Pg No.	229		
	One cubic mt 60kg For CC Drain	T	1	35.74			35.74		
	One cubic mt 90kg For Culvert		1	0.77			0.77		
						Total Qty	36.51	72326.98	26,40,658.04
4	Providing and laying plain/reinforced cement concrete for side drains Wall & bottom thickness 15cm using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500,1700, 2200. including cost of materials, labour, HOM complete as per specifications.								
	KPWD S.R 2018-19	It. No.	37.59.2.			Pg No.	271		
	CC Drain								
	Bottom Raft								
	Chandrappa Layout								
	Ch:00-44 1st Main 1st Cross		2	44.00	0.90	0.15	11.88		
	Ch:00-42 1st Main 2nd Cross		2	42.00	0.90	0.15	11.34		
	Ch:00-43 1st Main 3rd Cross		2	43.00	0.90	0.15	11.61		
	Ch:00-42 1st Main 4th Cross		2	42.00	0.90	0.15	11.34		
	Ch:00-44 1st Main 5th Cross		2	44.00	0.90	0.15	11.88		
	Ch:00-144 2nd Main Road		2	144.00	0.90	0.15	38.88		
	Ch:00-63 2nd Main 1st Cross		2	63.00	0.90	0.15	17.01		
	Ch:00-101 2nd Main 2nd Cross		1	101.00	0.90	0.15	13.64		
	Ch:00-27 2nd Main 3rd Cross		1	27.00	0.90	0.15	3.65		
	Aditya Nagar-II								
	Ch:00-93 1st Main		2	93.00	0.90	0.15	25.11		
	Ch:00-48 1st Main 1st Cross		2	48.00	0.90	0.15	12.96		
	Ch:00-77 1st Main 2nd Cross		2	77.00	0.90	0.15	20.79		
	Ch:00-102 1st Main 3rd Cross		2	102.00	0.90	0.15	27.54		
	Ch:00-73 9th Main 2nd Cross		2	73.00	0.90	0.15	19.71		
	Ch:00-100 Cross Road		1	100.00	0.90	0.15	13.50		
	Side Wall	Cum							
	Chandrappa Layout								
	Ch:00-44 1st Main 1st Cross		2 2	44.00	0.15	0.60	15.84		
	Ch:00-42 1st Main 2nd Cross		2 2	42.00	0.15	0.60	15.12		
	Ch:00-43 1st Main 3rd Cross		2 2	43.00	0.15	0.60	15.48		
	Ch:00-42 1st Main 4th Cross		2 2	42.00	0.15	0.60	15.12		
	Ch:00-44 1st Main 5th Cross		2 2	44.00	0.15	0.60	15.84		
	Ch:00-144 2nd Main Road		2 2	144.00	0.15	0.70	60.48		

Sl. No	Description of Work	Unit	No		Dimension L	Dimension B	Dimension D	Quantity	Rate In Rs.	Amount In Rs.
	Ch:00-63 2nd Main 1st Cross		2	2	63.00	0.15	0.60	22.68		
	Ch:00-101 2nd Main 2nd Cross		1	2	101.00	0.15	0.60	18.18		
	Ch:00-27 2nd Main 3rd Cross		1	2	27.00	0.15	0.60	4.86		
	Aditya Nagar-II									
	Ch:00-93 1st Main		2	2	93.00	0.15	0.60	33.48		
	Ch:00-48 1st Main 1st Cross		2	2	48.00	0.15	0.60	17.28		
	Ch:00-77 1st Main 2nd Cross		2	2	77.00	0.15	0.60	27.72		
	Ch:00-102 1st Main 3rd Cross		2	2	102.00	0.15	0.60	36.72		
	Ch:00-73 9th Main 2nd Cross		2	2	73.00	0.15	0.60	26.28		
	Ch:00-100 Cross Road		1	2	100.00	0.15	0.60	18.00		
	New Culvert									
	Raft		2		8.00	1.50	0.25	6.00		
	Side Wall		2	2	8.00	0.20	0.70	4.48		
							Total Qty	604.39	7070.20	42,73,158.18
5	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal Coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1,4.2									
	KPWD S.R 2018-19	It. No.	4.60			Pg.No.	13			
	Drain Raising									
	Chandrappa layout									
	Flagging Course Bed									
	Ch:00-207 1st main		2	2	207.00	0.20	0.15	24.84		
	Flagging Course Coping	Cum								
	Ch:00-207 1st main		2	2	207.00	0.15	0.08	9.94		
	Vent Concrete									
	Ch:00-207 1st main		2	1	207.00	0.60	0.15	37.26		
							Total Qty	72.04	5747.32	4,14,036.93
6	KSRB 5.2 : Providing and constructing granite / trap / basalt sizestone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apartin each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 KSRB 5.2-3 : - do - cement mortar 1:6 KBS 5.1.13									
	KPWD S.R 2018-19	It. No.	5.60			Pg.No.	25			
	Damaged Portion									
	Chandrappa layout									
	Ch:00-207 1st Main Road	Cum	2	2	112.00	0.40	0.80	143.36		
							Total Qty	143.36	4871.76	6,98,415.51
7	KSRB 5-14.1: Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200mm having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.									
	KPWD S.R 2018-19	It. No.	5.26.2			Pg.No.	27			
	Drain Raising									
	Chandrappa layout									
	Ch:00-207 1st main	Sqm	2	2	207.00		0.20	165.60		
							Total Qty	165.60	979.44	1,62,195.26

Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
8	Supplying and fixing precast reinforced concrete slab 10 cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mm C/c both ways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of cost of all materials(data Rate enclosed)								
	Approval Rate								
	For Drain Cover Slab								
	RCC Drain								
	Ch:00-208 1st Main Road Desilting	Sqm	2	208.00	1.20		499.20		
	Ch:00-44 1st Main 1st Cross		2	44.00	0.90		79.20		
	Ch:00-42 1st Main 2nd Cross		2	42.00	0.90		75.60		
	Ch:00-43 1st Main 3rd Cross		2	43.00	0.90		77.40		
	Ch:00-42 1st Main 4th Cross		2	42.00	0.90		75.60		
	Ch:00-44 1st Main 5th Cross		2	44.00	0.90		79.20		
	Ch:00-144 2nd Main Road		2	144.00	0.90		259.20		
	Ch:00-63 2nd Main 1st Cross		2	63.00	0.90		113.40		
	Ch:00-101 2nd Main 2nd Cross		1	101.00	0.90		90.90		
	Ch:00-27 2nd Main 3rd Cross		1	27.00	0.90		24.30		
	Aditya Nagar-II								
	Ch:00-93 1st Main		2	93.00	0.60		111.60		
	Ch:00-48 1st Main 1st Cross		2	48.00	0.60		57.60		
	Ch:00-77 1st Main 2nd Cross		2	77.00	0.60		92.40		
	Ch:00-102 1st Main 3rd Cross		2	102.00	0.60		122.40		
	Ch:00-73 9th Main 2nd Cross		2	73.00	0.90		131.40		
	Ch:00-100 Cross Road		1	100.00	0.90		90.00		
							1979.40		
	Deduction 14% House Front slabs						283.08		
						Total Qty	1696.32	2337.00	39,64,299.84
9	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
	Approval Rate								
	For Culvert slabs		2	8.00	1.50		24.00		
	Missing Culverts Slabs		3	0.60	1.50		2.70		
						Total Qty	26.70	5418.00	1,44,660.60
10	Providing and fixing Pre cast solid concrete kerb stones of size 450 x 150 x 400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.								
	KPWD S.R 2018-19	It. No.	5.29.2		Pg.No.	27			
	Chandrappa layout								
	1st main	Nos	2	460.00			920		
	2nd main		2	320.00			640		
						Total Qty	1560	467.46	7,29,237.60
11	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.								
	KPWD S.R 2018-19	It. No.	24.1.		Pg.No.	180			
	New Kerb								
	1st main	Sqm	2	207.00		0.35	144.90		
	2nd main		2	144.00		0.35	100.80		
						Total Qty	245.70	84.80	20,835.36
							Total Constrution cost		147,83,806.66
							GST 12%		17,74,056.80
							Design Report,Proof Checking & PMC Amount		3,50,000.00
							Add KRIDL Charges 4%		5,91,352.27

Construction of RCC Drains and Culverts at Adithya Nagara, Chandrappa layout and Surrounding Areas in ward No :03, Yelahanka Satellite Town sub Division — Detailed Estimate

Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
								Sub Total	174,96,883.48
								Miscellaneous & Rounding Off	3,116.52
								Grand Total	175,00,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

SRI SAI CONSULTANTS BANGALORE-90

Consultant
For Sri Sai Consultants

Assistant Engineer
Ward no. 03
BBMP - Bangalore

Assistant Executive Engineer
Yelahanka Sub Division
BBMP - Bangalore

Executive Engineer
Yelahanka Division
BBMP - Bangalore

Administrative Sanction for Rs. 175.00 lakhs
..... one crore only .....
is accorded under head P-3749
...cm - slava nagarothana 110 - Village
....grants (Annexure-07)
Registered
Subject to conditions enclosed memo
No. EE/YNK/SD/2019-20 Dt. 7/11/2019

Executive Engineer

Technical Sanction Accorded For Rs. 175 lakhs only
Head of A/C P 3749
CER NO :194 Dt. 08.11.2019

TA — CE (YNK)